IN THE CLAIMS

Please amend the claims as follows:

1. (Currently Amended) An information processing apparatus for detecting inter-track boundaries, comprising:

means for generating noise-eliminated audio data by eliminating noise from audio data generated by digitally converting analog audio signals of a plurality of tracks, the plurality of tracks having ~~whose~~ inter-track boundaries that are silent;

means for detecting presumed inter-track boundaries presumed to be [[the]] inter-track boundaries of said plurality of tracks, based on first portions of said noise-eliminated audio data, ~~whose~~ the first portions having signal levels [[are]] lower than a predetermined level threshold value, said means for detecting detects said inter-track boundaries of said plurality of tracks, based on second portions of said noise-eliminated audio data, when a number of presumed tracks is smaller than said number of tracks, the second portions having signal levels lower than an other level threshold value greater than said predetermined level threshold value, the presumed tracks being tracks divided by said presumed inter-track boundaries; and

means for specifying said inter-track boundaries from ~~the detected~~ said presumed inter-track boundaries, based on inter-track boundaries specifying information including ~~at least one of~~ a number of tracks of said plurality of tracks ~~and playing times of the tracks~~.

2. (Currently Amended) The information processing apparatus according to Claim 1, wherein said means for specifying specifies, as said inter-track boundaries, ~~said~~ presumed inter-track boundaries ~~dividing~~ in between presumed tracks, ~~whose~~ the presumed tracks having presumed track playing times [[are]] longer than a shortest playing time among [[the]] playing times of the tracks and [[are]] shorter than a longest playing time among the playing

times of the tracks, said inter-track boundaries specifying information including the shortest playing time and the longest playing time.

3. (Currently Amended) The information processing apparatus according to Claim 1, wherein said means for specifying presumes said presumed inter-track boundaries as said inter-track boundaries based on errors between the presumed track playing times of presumed tracks and [[said]] playing times of the tracks, said inter-track boundaries specifying information including the playing times of the tracks.

4. (Currently Amended) The information processing apparatus according to Claim 1, wherein

said means for specifying compares [[a]] the number of presumed tracks with said number of tracks, ~~said inter-track boundaries specifying information including the number of tracks;~~ and

said means for detecting ~~again tries to detect~~ detects said ~~presumed~~ inter-track boundaries of said plurality of tracks, ~~based on the portions of said noise-eliminated audio data whose signal levels are lower than an other level threshold value greater than said predetermined level threshold value, according to a result of the comparison by said means for specifying,~~ when the number of presumed tracks is smaller than said number of tracks according to a result of the comparison by said means for specifying.

5. (Currently Amended) An information processing method for detecting inter-track boundaries, comprising:

generating noise-eliminated audio data by eliminating noise from audio data generated by digitally converting analog audio signals of a plurality of tracks, the plurality of tracks having ~~whose~~ inter-track boundaries that are silent;

detecting presumed inter-track boundaries presumed to be [[the]] inter-track boundaries of said plurality of tracks, based on first portions of said noise-eliminated audio data, the first portions having ~~whose~~ signal levels [[are]] lower than a predetermined level threshold value; [[and]]

specifying said inter-track boundaries from ~~the detected~~ said presumed inter-track boundaries, based on inter-track boundaries specifying information including ~~at least one of~~ a number of tracks of said plurality of tracks; and

detecting said inter-track boundaries of said plurality of tracks, based on second portions of said noise-eliminated audio data, when a number of presumed tracks is smaller than said number of tracks, the second portions having signal levels lower than an other level threshold value greater than said predetermined level threshold value, the presumed tracks being tracks divided by said presumed inter-track boundaries ~~and playing times of the tracks~~.

6. (Currently Amended) A computer-readable medium including computer executable instructions, wherein the instructions, when executed by a processor, cause the processor to perform a method comprising:

generating noise-eliminated audio data by eliminating noise from audio data generated by digitally converting analog audio signals of a plurality of tracks, the plurality of tracks having ~~whose~~ inter-track boundaries that are silent;

detecting presumed inter-track boundaries presumed to be [[the]] inter-track boundaries of said plurality of tracks, based on first portions of said noise-eliminated audio

data, the first portions having ~~whose~~ signal levels [[are]] lower than a predetermined level threshold value; [[and]]

specifying said inter-track boundaries from ~~the detected~~ said presumed inter-track boundaries, based on inter-track boundaries specifying information including ~~at least one of~~ a number of tracks of said plurality of tracks; and

detecting said inter-track boundaries of said plurality of tracks, based on second portions of said noise-eliminated audio data, when a number of presumed tracks is smaller than said number of tracks, the second portions having signal levels lower than an other level threshold value greater than said predetermined level threshold value, the presumed tracks being tracks divided by said presumed inter-track boundaries ~~and playing times of the tracks~~.

7. (Currently Amended) An information processing apparatus for detecting inter-track boundaries, comprising:

a generation unit configured to generate noise-eliminated audio data by eliminating noise from audio data generated by digitally converting analog audio signals of a plurality of tracks, the plurality of tracks having ~~whose~~ inter-track boundaries that are silent;

a detection unit configured to detect presumed inter-track boundaries presumed to be [[the]] inter-track boundaries of said plurality of tracks, based on first portions of said noise-eliminated audio data, the first portions having ~~whose~~ signal levels [[are]] lower than a predetermined level threshold value, the detection unit being further configured to detect said inter-track boundaries of said plurality of tracks, based on second portions of said noise-eliminated audio data, when a number of presumed tracks is smaller than said number of tracks, the second portions having signal levels lower than an other level threshold value greater than said predetermined level threshold value, the presumed tracks being tracks divided by said presumed inter-track boundaries; and

a specifying unit configured to specify said inter-track boundaries from ~~the detected~~ said presumed inter-track boundaries, based on inter-track boundaries specifying information including ~~at least one of~~ a number of tracks of said plurality of tracks ~~and playing times of the tracks~~.

8. (New) The information processing method according to Claim 5, wherein the specifying includes specifying, as said inter-track boundaries, presumed inter-track boundaries in between presumed tracks, the presumed tracks having presumed track playing times longer than a shortest playing time among playing times of the tracks and that shorter than a longest playing time among the playing times of the tracks, said inter-track boundaries specifying information including the shortest playing time and the longest playing time.

9. (New) The information processing method according to Claim 5, wherein the specifying includes presuming said presumed inter-track boundaries as said inter-track boundaries based on errors between presumed track playing times of the presumed tracks and playing times of the tracks, said inter-track boundaries specifying information including the playing times of the tracks.

10. (New) The information processing method according to Claim 5, further comprising:

comparing the number of presumed tracks with said number of tracks, wherein

the detecting includes detecting said inter-track boundaries of said plurality of tracks, when the number of presumed tracks is smaller than said number of tracks according to a result of the comparing.

11. (New) The computer-readable medium according to Claim 6, wherein the specifying includes specifying, as said inter-track boundaries, presumed inter-track boundaries in between presumed tracks, the presumed tracks having presumed track playing times longer than a shortest playing time among playing times of the tracks and shorter than a longest playing time among the playing times of the tracks, said inter-track boundaries specifying information including the shortest playing time and the longest playing time.

12. (New) The computer-readable medium according to Claim 6, wherein the specifying includes presuming said presumed inter-track boundaries as said inter-track boundaries based on errors between presumed track playing times of the presumed tracks and playing times of the tracks, said inter-track boundaries specifying information including the playing times of the tracks.

13. (New) The computer-readable medium according to Claim 6, the method further comprising:

comparing the number of presumed tracks with said number of tracks, wherein

the detecting includes detecting said inter-track boundaries of said plurality of tracks, when the number of presumed tracks is smaller than said number of tracks according to a result of the comparing.

14. (New) The information processing apparatus according to Claim 7, wherein the specifying unit is configured to specify, as said inter-track boundaries, said presumed inter-track boundaries in between presumed tracks, the presumed tracks having presumed track playing times longer than a shortest playing time among playing times of the tracks and

shorter than a longest playing time among the playing times of the tracks, said inter-track boundaries specifying information including the shortest playing time and the longest playing time.

15. (New) The information processing apparatus according to Claim 7, wherein the specifying unit is configured to presume said presumed inter-track boundaries as said inter-track boundaries based on errors between presumed track playing times of the presumed tracks and playing times of the tracks, said inter-track boundaries specifying information including the playing times of the tracks.

16. (New) The information processing apparatus according to Claim 7, wherein

the specifying unit is further configured to compare the number of presumed tracks with said number of tracks, and

the detection unit is configured to detect said inter-track boundaries of said plurality of tracks, when the number of presumed tracks is smaller than said number of tracks according to a result of the comparison by the specifying unit.